



Maths

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Revision & Answers



Primary First Term

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General Exercises

General Exercises On Unit 1

| First: | Choose the correct answe | er: |
|-------------|--|---------------------------------------|
| 1 | is a number. | |
| a | (7 X 100,000) + (2 X 2,000) | 5 0 millions |
| C | 456 | 3 0,000 + 800 |
| 2 23 | ,080,250: | (in Word Form) |
| a | Three hundred and sixty million | , eighty thousand, two hundred fifty. |
| Ь | Twenty-three million, eight hunc | lred thousand, two hundred fifty. |
| C | Twenty-three million, eighty thou | usand, two hundred fifty. |
| d | Three hundred and sixty million. | eight hundred two thousand, fifty |
| 3 70 | 6,200,405: | (in Expanded Form) |
| a | 700,000,000 + 6,000,000 + 200,0 | 000 + 400 + 5 |
| b | 700,000,000 + 6,000,000 + 200 - | + 40 + 5 |
| C | 70,000,000 + 6,000,000 + 20,000 |) + 400 + 5 |
| d | 700,000,000 + 6,000,000 + 200,0 | 000 + 40 + 5 |
| 4 Th | ree milliard (billion), five hundred | d ninety thousand, three hundred |
| five | e: | (in Standard Form) |
| a | 3,000,590,305 | 5 3,590,305 |
| C | 3,590,000,305 | 3 ,005,900,305 |
| 5 Th | e smallest even number formed t | from 8 different digits |
| is . | . | |
| a | 99,999,998 | (b) 10,000,000 |
| C | 10,234,567 | 1 0,234,568 |



| 6 The greatest odd number forme | d from 6 different digits is |
|--|--|
| a 999,999 | 6 987,653 |
| © 987,645 | d 100,003 |
| $\overline{m{7}}$ The value of the digit 6 in the $m{T}$ | housands place = 100 times the value |
| of the digit 6 in the | place. |
| Ones | b Tens |
| • Hundreds | d Thousands |
| 8 40,225,885 < | |
| a 8,688,988 | 6 41,200,800 |
| © 9,999,999 | 3 9,009,000 |
| 9 258,456 ≈ | (To the nearest 10,000) |
| a 250,000 | 260,000 |
| © 200,000 | 3 00,000 |
| 10 The smallest integer that can be | e rounded to the nearest 100 so that |
| the result is 2,300 is | |
| a 2,350 | 6 2,250 |
| © 2,301 | 3 2,299 |
| Second: Complete the following | : |
| 1 The place value of the digit 6 in | the number 6 58,478,203 is |
| 2 The largest number that can be | formed from the digits: (4, 8, 0, 9, 7, 3) |
| is | |
| · | + 225 thousands + 102 = (in |
| | 77752::: |
| _ | 37,752 is in the |
| value of the digit in the | ndred-thousands place = 100 times the |
| 6 (3 thousands and 5 tens) x 1,000 | |



7 7,305,057 (in Expanded Notation) =

8 Nine milliard (billion), seven hundred five million, thirty thousand, six

$$\approx$$
 45,000. (To the nearest 1,000)

(Complete with the **smallest** number possible)

Third: Complete using (< , = or >):

- 1 200,002,780. 200,020,078.
- 2 (5 X100,000,000) + (5 X 1). 550,000,000.
- 3 620,000,602. 62 millions, 602.
- 4 Three hundred million, three hundred. 300,300,000.
- 5 The value of the digit 8 in the Hundred-thousands place. 800,000.

Fourth: Arrange the following numbers in a descending order (Write the numbers using the Standard Form):

| The Order | Number | Standard Form |
|-----------|---|---------------|
| a | 30,000,450 | |
| 6 | (3 X 1,000,000) + (4 X 100) + (5 X 1) | |
| C | Three hundred million, four hundred fifty | |
| 6 | 50 + 400 + 3,000,000,000 | |
| e | 30 million, 450 thousand | |



Fifth:

Write each of the following numerical forms in Standard Form, then estimate the number by the Front-end Estimation Strategy, then round the number to the nearest 100:

| Numerical Form | Standard Form | Front-end Estimation Strategy | To the Nearest 100 |
|---|------------------|-------------------------------------|-----------------------|
| a Five thousand, five hundred ninety nine | | | |
| 6 4 thousand, 985 | | | |
| © 90,000 + 400 + 30 + 2 | | | |
| 3 (8 X 10) + (3 X 1) | | | |

General Exercises On Unit 2

First: Choose the correct answer:

$$1 25 + 152 = 152 + 25.$$

(......Property)

1 2 7 + 1 3 2 - 1 3 2 + 2 3

a Neutral Element

Associative

© Commutative

- **d** Distributive
- **2** 63 + (15 + 95) = (63 + 15) + 95.

(...... Property)

a Neutral Element.

6 Associative.

Commutative.

d Distributive

3258 + 0 = 258.

(...... Property)

a Neutral Element

Associative

Commutative

- O Distributive
- 4 456 + 998 = 454 +
 - **a** 999

b 990

© 1,000

- **d** 996
- **5** 369 + 254 =
 - **a** 369 + 200 + 50 + 4

b 369 + 2 + 4 + 5

© 369 + 25 + 4

- **d** 369 + 2 + 54

| 75 | 50 |
|----|-----|
| χ | 150 |

a
$$\chi + 120 = 750$$

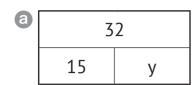
b
$$750 - \chi = 150$$

a
$$\chi = 750 + 150$$

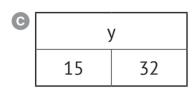


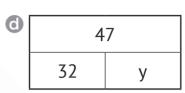
7 The Bar Model that represents the following equation "32 – y = 15"

is



| b | 1 | 5 |
|----------|----|---|
| | 32 | у |





a 300,780

6 410,690

© 300,690

d 790,410

a 245 + 786

6 786 – 245

© 245 + 541

d 786 – 541

10 If
$$452 - y = 152$$
, then $y = ...$.

a 452 + 152

b 152 + 200

G 452 – 152

d 452 – 200

Second: Complete the following:



6 If
$$\chi + 258 = 500$$
, then $\chi = ...$.

7 If
$$458 + y = 600$$
, then $y = ...$

8 If
$$m - 524 = 214$$
, then $m = ...$.

$$9$$
 If 842 – z = 600, then z =

10 If
$$2,456 + 3,375 = \dots \approx \dots \approx 1,000$$

Third: Solve the following problems using the strategy shown. (Show your steps):

| Problem | Mental Math Strategy | Solution |
|-------------|--|----------|
| 1 64 + 49 | Compensation Strategy | |
| 2 456 + 127 | Composing and Decomposing Strategy | |
| 3 800 - 793 | Counting Up Strategy (From the smallest number to the largest number): | |

Fourth: Solve the following problem using the Countdown Strategy with Decomposition of Numbers:





| Fifth: | | Solve th | e following p | oroblem ι | ising the Co | ount-c | n Strat | egy with |
|--------|--------|-------------------|--------------------------|-------------|---------------|---------------|----------|------------|
| | | Decom | position of | Number | s: | | | |
| | 8 | 4 2 | | | | | | |
| | - 3 | 2 1 | • | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Sixth | | Answer | the following | g: | | | | |
| a | In o | ne week | 6,245 touris | ts visited | the pyramic | ds, and | in the f | ollowing |
| | we | ek 5,375 1 | tourists did. | | | | | |
| | Hov | w many to | otal tourists v | visited the | e pyramids i | n the t | wo wee | ks? |
| | Bar | Model: | | | | Г | | |
| | Equ | ation: | | | | ····· • | | |
| | Sol | ution: | | | | . | | |
| Ь | Sar | ah had 1 , | 025 pounds. | . She bou | ght a dress | for 67 | 5 pound | ls. |
| | | | ounds are le | | | | · | |
| | Bar | Model: | | | | Г | | |
| | Equ | ation: | | | | . | | |
| | Sol | ution: | | | | | | |
| C |) A ro | oad with a | a length of 9 | ,150 met | ers was pav | ed in t | hree da | ys, of |
| | wh | ich 345 m | neters were _l | paved on | the first day | and 2 | 90 met | ers on the |
| | nex | t day. Ho | w many meto | ers were p | paved on th | e third | day? | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | • |



General Exercises On Unit 3

| First: | Choose the correct answer | •• |
|--------------|-------------------------------------|--|
| 1 The | best unit for measuring the heig | ht of a class is the |
| a n | neter | 6 centimeter |
| C n | nillimeter | d kilometer |
| 2 The | best unit for measuring a dog's i | mass is |
| a g | rams | 6 centigrams |
| C n | nilligrams | d kilograms |
| 3 The | best unit for measuring a car's for | uel tank is |
| a li | iters | 6 centiliters |
| C n | nilliliters | dekaliters |
| 4 The | time is now 10:25, what time wi | ll it be in fifty minutes? |
| | | |
| a 1 | .0: 50 | 6 10: 15 |
| © 1 | .1:25 | d 11:15 |
| 5 120 | hours =days. | |
| a 2 | | 6 6 |
| © 5 | | d 12 |
| 6 The | is one of the gradient s | cales that we see in our daily lives. |
| a c | ar | b mobile phone |
| © b | palance | d calculator |
| 7 The | height of Cairo Tower is 198 me | ters. How high is it in |
| cent | imeters? | |
| a 1 | .98 cm | 1 ,980 cm |
| C 1 | .9,800 cm | 1 98,000 cm |



| 8 If Shaima's weight is 65 kilograms and 500 grams, then her weight in | | | | |
|--|--|--|--|---------------------------|
| grams = | | • | | |
| a 565 gn | n | b | 650,500 gm | |
| © 65,000 | ,500 gm | d | 65,500 gm | |
| 9 " 20 to 3 ", r | epresented b | by the digital clo | ck is | |
| a 3: 20 | | 6 | 2:40 | |
| © 2: 20 | | 0 | 4: 20 | |
| 10 If a fish ta | nk contains 2 | 20 liters and 250 | milliliters of wa | ter. The volume |
| of water i | n the tank in | milliliters is | ······································ | |
| a 20,250 | ml | Ь | 2,250 ml | |
| © 25,020 | ml | 0 | 2,025 ml | |
| Second: Cor | nplete the f | ollowing: | | |
| 1 10 maters | J 2F G | | | |
| 10 meters | and 25 cent | imeters = | centimeters. | |
| | | imeters =kilometers a | | eters. |
| 2 20,015 m e | eters = | | and m o | |
| 2 20,015 me 3 15,040 gra | eters = ams = | kilometers a | nnd m o d gra i | ns. |
| 2 20,015 me 3 15,040 gra 4 400,020 n | eters = ams = nilliliters = | kilometers a | d grai mill | ns. iliters. |
| 2 20,015 me 3 15,040 gra 4 400,020 n 5 40 hecton | eters = ams = nilliliters = neters = | kilometers a kilograms an liters an | mnd mo d gran d mill s = me | ms. iliters. eters. |
| 2 20,015 me 3 15,040 gra 4 400,020 n 5 40 hecton 6 20,000 ce | eters = ams = nilliliters = neters = ntigrams = | kilometers a kilograms an liters an dekameters | mnd | ms. iliters. eters. |
| 2 20,015 me 3 15,040 grs 4 400,020 n 5 40 hecton 6 20,000 ce | eters =nilliliters =neters =ntigrams =ntigrams = | kilometers a kilograms an liters an dekameters decigrar | nnd | ms. iliters. eters. |
| 2 20,015 me 3 15,040 gra 4 400,020 n 5 40 hecton 6 20,000 ce 7 | eters =nilliliters =neters =ntigrams =ntigrams =ntigrams = | kilometers a kilograms an liters an dekameters decigrar | mnd | ms. iliters. eters. |
| 2 20,015 me 3 15,040 grs 4 400,020 n 5 40 hecton 6 20,000 ce 7 | eters = | kilometers a kilograms an liters an dekameters decigrar 500 liters = | mnd | ms. iliters. eters. |
| 2 20,015 me 3 15,040 grs 4 400,020 n 5 40 hecton 6 20,000 ce 7 | eters =nilliliters =neters =ntigrams = | kilometers a kilograms an liters an dekameters decigrar | mnd | ms. iliters. eters. |
| 2 20,015 me 3 15,040 grs 4 400,020 n 5 40 hecton 6 20,000 ce 7 | eters = | kilometers and kilograms and k | mnd | ms. iliters. eters. |



| Fou | irth: | Arrange the fo | ollowing | g length | s in an | ascend | ing orde | er: |
|------|--------|---|----------------------|----------|----------|-----------|------------|----------|
| 4 | 0 deka | ameters , 40 hed | ctometer | s , 400 | centimet | ters , 40 | 00 decim | eters |
| | The | order : | ····· , ····· | | , | | · • ······ | ·····•• |
| Fift | h: | The following t Mathematics: | able sho | ows the | grades c | of a grou | ıp of stu | dents in |
| | | Marks | 15 | 16 | 17 | 18 | 19 | 20 |
| | Nun | nber of Students | 3 | 4 | 6 | 2 | 4 | 5 |
| • | 4 | previous table to | | | | | | |
| | | | X= | | | | | |
| Sixt | th: | Salah trains in goes to training Salah spend in | g three o | lays a w | eek, how | | | |
| | | And how many | minutes | does S | alah spe | nd in tra | ining pe | r week? |



General Exercises On Unit 4

| First: | Choose the correct | answer: | |
|-------------------|-------------------------------|--|------|
| | | nd 6 cm width, its perimeter is | cm. |
| | 3 + 6 + 8 + 6 | b 8 X 6 X 8 X 6 | |
| C 8 | 3 X 6 X 2 | a 8 + 6 + 2 | |
| 2 A re | ectangle has a length of 9 | cm and a width one third of its length | ١, |
| | n its area = | | • |
| a <u>1</u> | 12 | b 27 | |
| © 2 | 24 | d 36 | |
| 3 A so | quare has an area of 64 c | m ² , then its perimeter =c | m. |
| a 8 | 3 | b 16 | |
| C | 32 | d 64 | |
| 4 A sc | quare has a perimeter of | 28 cm, then its area = cm | 2. |
| a 2 | 19 | b 14 | |
| © 7 | 7 | d 21 | |
| 5 A re | ectangle has a perimeter | of 24 cm and a length of 9 cm, then its | |
| area | a is cm ² . | | |
| a | 3 | b 31 | |
| G (| 12 | d 27 | |
| 6 Whi | ich of the following is a f | ormula for the perimeter of the rectang | jle? |
| a [| P = L + W + 2 | D P = (L X W) X 2 | |
| C | P = (L X 2) + (W X 2) | P = (L X W) + 2 | |

a P = L + W + L + W**6** P = L X 2 X W X 2

7 Which of the following is a formula for the **perimeter of the rectangle**?

 $P = (L + 2) \times (W + 2)$



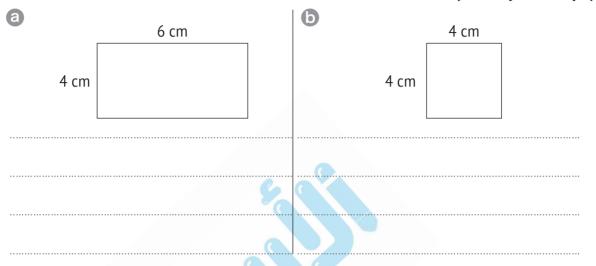
| 8 Whic | ch of the following is a formula | for the area of the rectangle ? | ? |
|-------------|---|--|------------------|
| a A | = L X W | 6 A = L X W X 2 | |
| G A | = L + W | a $A = L + W + 2$ | |
| 9 The | area of a rectangle whose lengt | h is 9 cm and its width is 4 c | m is |
| equa | I to the area of the square who | se perimeter is | cm. |
| a 24 | 4 | 6 36 | |
| © 1 | 3 | d 18 | |
| 10 The | perimeter of a square whose are | ea is 25 cm ² is equal to the | |
| perir | meter of a rectangle whose dime | ensions are | |
| a 12 | 2 cm, 13 cm | 6 8 cm, 12 cm | |
| © 6 | cm, 4 cm | d 5 cm, 5 cm | |
| Second: | Complete the following: | | |
| 1 A red | ctangle of 15 m length and 10 m | width, its perimeter is | • |
| 2 A squ | uare has a 6 cm side length, its r | perimeter is | |
| 3 A squ | uare whose sides are <mark>7 mm</mark> has a | a surface area of | mm². |
| 4 A rec | ctangle has a length of 8 cm and | l a width of 4 cm. Its surface | area |
| is | cm ² . | | |
| 5 A rec | ctangle has a perimeter of 18 cm | and a length of 7 cm, then | its |
| area | is cm ² . | | |
| 6 A rec | ctangle has an area of <mark>72 cm²</mark> ar | d a width of 8 cm, then its | |
| perir | neter is | | |
| 7 A squ | uare has a perimeter of 36 cm, tl | ne length of its side is | cm. |
| 8 A squ | uare has an area of <mark>36 cm²,</mark> the l | ength of its side is | cm. |
| 9 A squ | uare has a perimeter of 16 cm, se | o its area iscm | 1 ² . |
| 🔟 A squ | uare has an area of <mark>64 cm²</mark> , then | its perimeter is | cm. |

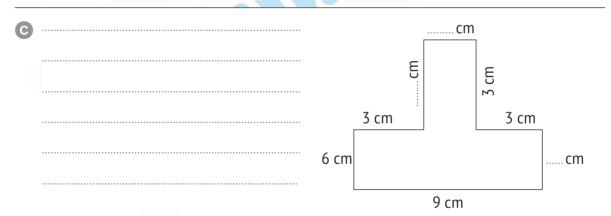


Third: Answer the following:

1 Calculate the area and perimeter of each of the following shapes:

(Show your steps)





- 2 The length of Fatima's rectangular garden is three times its width. If (W) is the width, write an equation that can represent the perimeter of Fatima's garden?
- 3 Adam has a rectangular computer keyboard that is 40 cm long and 15 cm wide. How can Adam calculate the perimeter of the keyboard?





Maths

By: Mohamed Nasreldin

Final Revision unit 5 to 7



Primary

First Term

2022

General Exercises

| First: | Choose the | correct | answer: |
|--------|------------|---------|---------|
| | | | |

| _ | | | | | |
|----|------------|----------|--------|-------|--|
| 11 | To compare | hatwaan | 6 and | 1 Q • | |
| | TO COMPANE | DELMEELL | U allu | TO. | |

- a 18 equals six times 6 **b** 18 equals six times 3
- © 18 equals triple 6 **18** equals triple 3

- **a** 8 X 8
- \bigcirc 8 + 5

- 6 8 + 8
- **a** 8 X 5

- **a** 6 + 6 + 6 + 6
- \bigcirc 4 + 4 + 4 + 4

- 6 X 6 X 6 X 6
- **a** 4 X 4 X 4

| 7 | 7 | 7 | 7 | 7 |
|---|---|-----|---|-----|
| / | | / | / | / |
| ' | | · • | ' | · ' |

- a 35 equals seven times 7
- **1** 35 equals five times 7
- © 35 equals seven times 5
- **1** 35 equals five times 5

3

5 The Strip Diagram that represents "12 equals triple 4" is



- **b**
- 3

3

3 3 3

- 4
- 6 The equation that represents "28 equals four times n" is
 - a 28 = 4n

 \bigcirc 28n = 4

 \bigcirc 28 = 4 + n

3 $\frac{1}{2}$ **3** $\frac{1}{2}$ **3** $\frac{1}{2}$ **3** $\frac{1}{2}$ **4** $\frac{1}{2}$



7 If
$$8 \times 5 = a \times 8$$
, then $a = ...$.

a 40

6 8

© 5

d 64

a 5

50

© 500

d 5,000

a 40

6 8

© 20

d 10

a 5

100

G 10

1,000

Second: Complete the following:

$$1 + 4 + 4 + 4 + 4 + 4 + 4 = 3 X$$

3 The equation that represents "36 equals four times n" is

4 If
$$5X = 35$$
, then $X = ...$.



| Third: | Compare | e between each | n two n | umbers | s: | | | |
|---------------|------------------------|-------------------|----------|----------------------|---------------------|----------|-------|-------------|
| 1 48 a | nd 6 ⇒ 48 | } | | | | | | 6. |
| 2 36 a | nd 9 ⇒ 36 |) | | | | | | 9. |
| 3 21 a | nd 7 ⇒ 21 | | | | | | | 7. |
| 4 15 a | nd 3 ⇒ 15 |) | | | | | | 3. |
| 5 45 a | nd 5 ⇒ 45 |) | | | | | | 5. |
| Fourth: | Complet | e each of the fo | ollowin | g using | the <mark>St</mark> | rip Dia | gram | 1S : |
| 1 | is | times | 7 | 7 | 7 | 7 | 7 | |
| 2 | is | times | 9 | 5 | | 5 | | |
| 3 | is | times | 2 2 | 2 | 2 2 | 2 | 2 | 2 |
| 4 | is | times | 3 | 3 | | 3 | 3 | |
| <u>5</u> | is | times | 9 | | 9 | | 9 | |
| Fifth: | Write an | equation for th | e follo | wing co | omparis | ons: | | |
| | (Use symvalues): | bols to represe | ent the | unknow | vns, the | n find t | their | |
| 1 The | , | equals eight time | es the n | umber <mark>6</mark> | 5. | | | |
| Equa | ation : | | | | | | | • |
| Solu | tion : | | | | | | | • |
| 2 The | number <mark>24</mark> | equals eight tim | es the r | number | n. | | | |
| | . • | | | | | | | • |
| Solu | | | | | | | | • |
| 3 The | number 21 | equals a times t | he numl | oer 3 . | | | | |
| Equa | | | | | | | | • |
| Solu | | | | | | | | • |



| 4 The | number | x equals si | ix times t | he numbe | er 7 . | | |
|-------------|------------|-------------------------|------------|-------------|---------------|-------------|------------|
| Equ | ation | • | | | | | |
| Solu | ution | • | | | | | |
| Sixth: | Answe | r the follo | wing: | | | | |
| a Ma | ahmoud | has <mark>20</mark> cra | yons, whi | ch is 5 tin | nes the n | umber of c | rayons |
| th | at Hazen | n has. How | many cra | ayons are | there wit | :h Hazem? | ı |
| (W | /rite a mi | ultiplicatio | n equatio | n represe | enting this | s problem | and then |
| SO | lve it). | | | | | | |
| | | | 9 | | | | |
| | | | | | | | |
| | | | | | | | • |
| b Na | ader has | 12 orange | S. | | | | |
| W | rite an e | quation usi | ing the Co | ommutati | ve Propei | rty of Mult | iplication |
| to | describe | two ways | in which | he can ai | range the | e oranges. | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| C Us | se the As | sociative P | roperty ir | n the mul | tiplicatio | n to calcul | late the |
| ทบ | ımber of | marbles in | the pictu | ıre: | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



General Exercises On Unit 6

| First: | Choose the | e correct answe | r: | |
|-------------|-----------------------|---------------------------|------------------------|-------------------------|
| 1 T | he number of | factors of 16 are. | • | |
| (8 | 3 | b 4 | © 5 | d 6 |
| 2 T | he number 17 | is a prime numbe | er because | • |
| (8 | it has one fa | actor only | b it has tw | vo factors only |
| | it has no fac | tors | d it has m | ore than two factors |
| 3 T | he number th | at has the factors | (1,2,3,4,6, | 8,12,24) is |
| (| 8 | b 12 | © 24 | 3 6 |
| 4 T | he smallest o | dd prime number | is | |
| (| 0 | 61 | © 2 | d 3 |
| 5 T | he greatest co | mmon factor of 2 | 4 and 36 is | • |
| (8 | 6 | 6 12 | G 4 | d 3 |
| 6 | is a co r | nmon multiple of | 8 and 6. | |
| (8 | 12 | b 16 | C 48 | d 36 |
| 7 If | 6 X 8 = 48, th | en | | |
| (8 | 48 is a mult | iple of 6 and 8 | 6 48 is a f | actor of 6 |
| | 4 8 is a sum | for 6 and 8 | 6 6 is a fa | ctor of 8 |
| 8 | is an o o | dd number and a រ | nultiple of the | two numbers 5 and 7. |
| (8 | 70 | b 49 | © 35 | d 25 |
| 9 | is an e v | en number and a | multiple of the | two numbers 5 and 3 |
| (4) | 15 | 6 45 | © 60 | d 50 |
| 10 | is an e v | /en number, and (| 2,3,6,9) are | of its factors . |
| (8 | 30 | 6 24 | © 45 | d 36 |



| Second: Complete the follow | wing: |
|--------------------------------------|--|
| 1 The factors of 14 are | ······· , ······ , ········· , ········ |
| 2 The smallest odd prime num | nber is |
| 3 The prime numbers betwe | en 20 and 40 are, |
| and | |
| 4 The number that has only t | wo factors is called anumber. |
| 5 The smallest two-digit-prim | ne-number is |
| 6 Number (2) is a factor of a | number if the Ones digit of this number |
| is | |
| 7 Multiples of 6 up to 20 are | |
| 8 The common multiples of 4 | and 6 between 20 and 50 are |
| The relationship between t | he numbers 5, 6 and 30 is that |
| the number 30 is a | for the numbers 5 and 6. |
| is a pri | me number whose the sum of its factors is 8. |
| Third: Find the Greatest Co | mmon Factor for 40, 32: |
| | |
| | |
| | |
| | |
| | |
| The factors of number 40: | The factors of number 32: |
| The common factors are: | |
| The Greatest Common Factor | (G. C. F.) is: |



| Fourt | h: Find the multiples of each of the numbers 6 and 8, up to 50 |
|--------|--|
| | then find the common multiples between them: |
| | The multiples of 6 are: |
| | The multiples of 8 are: |
| | The common multiples of the two numbers are: |
| Fifth: | There is an alarm that rings every 3 hours and another alarm tha |
| | rings every two hours. If they ring together at 12:00, when will they ring |
| | again together? (Show your steps |
| | 6.05 |
| | |
| | |
| | |
| C: | |
| Sixth: | |
| | Hana wants to form equal groups of balloons, so that all groups |
| | contain the same number of balloons of different colors. |
| | How many groups can be formed? |
| | How many balloons of each color are in each group? |
| | |
| ••••• | |
| | |
| | |



General Exercises On Unit 7

First: Choose the correct answer:

- - 2 3 8 X 2 = 16 8 X 3 = 24 8
- 20 3 80 X 20 = 1,600 80 X 3 = 240 80
- 2 30 8 X 2 = 16 8 X 30 = 240 8
 - 8 X 20 = 160 8 X 3 = 24 80

20

- 2 4 X (200 + 30 + 5) = 4 X
 - **a** 235

b 10

b

© 523

- **d** 940
- 3(5X7) + (5X30) + (40X7) + (40X30) =X
 - **a** 57 X 43

6 45 X 37

© 47 X 35

- **d** 43 X 75
- 4 (8 X 6) + (8 X 20) + (8 X 100) =X
 - **a** 8 X 621

6 8 X 18

© 8 X 126

- **1** 8 X 62,000
- **5** 62 X 50 =
 - a (60 X 50) + (2 X 50)
- **(**6 + 2) X 50

 \bigcirc 60 + 2 + 50

- **d** 60 X 2 X 50
- 6 The opposite Rectangle Area Model represents:
 - **a** 52 X 23

6 25 X 23

© 32 X 52

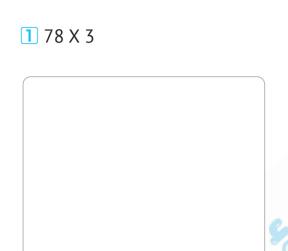
a 25 X 32

| Χ | 20 | 5 |
|----|---------|--------|
| 30 | 30 X 20 | 30 X 5 |
| 2 | 2 X 20 | 2 X 5 |

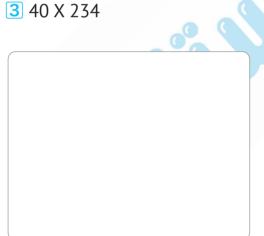
| 7 The quotient of $(157 \div 5)$ is between | and |
|---|-----------------------------------|
| a 0 and 100 | 1 00 and 200 |
| © 200 and 300 | d 300 and 400 |
| 8 The number of digits of the quotient | of (2,542 ÷ 6) is |
| a 1 | 6 2 |
| © 3 | d 4 |
| 9 The number which if divided by 7, th | e quotient is 24 and the remainde |
| 3 is | |
| a 168 | 6 171 |
| © 72 | d 165 |
| 10 The area of a rectangle is 104 cm ² a | nd its width is 8 cm, then its |
| length iscm. | |
| a 13 | 6 44 |
| © 832 | @ 26 |
| Second: Complete the following: | |
| 1 4,257 = 4,000 + 200 + | + |
| 2 80 X 900 = | |
| 3 If 8 X 5 = 40, then 40,000 ÷ 8 = | |
| 4 6 X = 30,000. | |
| 5 The number which if divided by 8, th | e quotient will be 200 is |
| | |
| 6 The estimation of 32 X 24 is | X= |
| 7 The remainder of (49 ÷ 6) is | |
| 8 75 = (12 X) + 3. | |
| 9 The quotient ($945 \div 4$) is between | and |
| 10 800 X 30 = 24 X | |



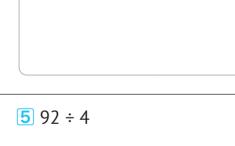
Third: Use the Rectangle Area Model Strategy to solve the following problems:

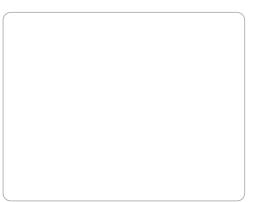


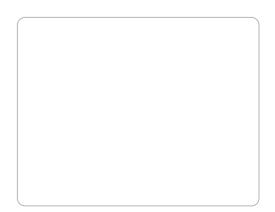










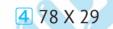


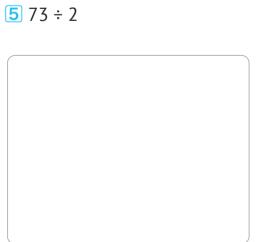
Fourth: Use the Multiplication/Division Partial Algorithm to solve the following problems:

| 1 98 | 3 X 6 | | |
|------|-------|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |









| 6 | 1,125 ÷ 5 | |
|---|-----------|---|
| | | |
| | | _ |



Fifth: Use the Standard Multiplication/Division Algorithm to solve the following problems:

| 1 6 X 29 | 2 3 X 125 | 3 96 X 17 |
|-----------------|------------------|--------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| 4 84 ÷ 6 | 5 981 ÷ 9 | 6 2,436 ÷ 4 |
| | | |
| | | |
| | | |

Sixth: Use the Distributive Property to solve the following problems:

Revision



Seventh: Answer the following using the appropriate strategy:

- The school bus can accommodate 45 students. If the school has
 buses, and each bus makes two trips in the morning,
 how many students can be transported by all buses in the two trips?
- Ahmed bought a car for 290,000 pounds, of which he paid 80,000 pounds as a down-payment, and the rest of the car's price will be paid in 7 equal installments. How much is one installment?
- A charity association wants to distribute 3,168 pounds among
 8 people. How much is the share of one person?



General Exercises

General Exercises on

Unit 1

First

- **1** (c)
- 2 (c)
- 3 (a) 6 (b)

- 4 (a) 7 (b)
- 5 (d) 8 (b)
- 9 (b)
- 10 (b)

Second

- 1 Hundred-millions 2 987,430
- 3 Two billion, seven million, Two hundred twenty five thousand, one hundred two.
- 4 Ten-millions.
- **5** Thousands.
- 6 3,050,000.
- 1,000,000 100,000 1,000 10 1.
- 8 9,705,030,006.
- 9 650,000.
- 10 44,500.

Third

- 1 <
- 2 <
- 3 >

- 4 <
- 5 =

Fourth

| The Order | Standard form |
|-----------|---------------|
| 3 | 30,000,450 |
| 1 | 3,000,405 |
| 4 | 300,000,450 |
| 5 | 3,000,000,450 |
| 3 | 30,450,000 |

Fifth

- **a** 5,599 , 5,000 , 5,600.
- **b** 4,985 , 4,000 , 5,000.
- **©** 90,432 , 90,000 , 90,400.
- **3** 83 , 80 , 100

General Exercises on

Unit 2

First

- (c)
- **2** (b)
- 3 (a)

- 4 (c)
- 5 (a) 8 (b)
- 6 (b)

- 7 (a) 9 (b)
- 10 (c)

Second

- 1 21, Commutative. 2 13, 45, 25, Associative.
- 3 0, Neutral Element.
- 4 110,710.
- 5 235,553.

8 738.

6 242.9 242.

- **7** 142.
- **10** 5,831 ≈ 6,000.

Third

- $\bigcirc 63 + 50 = 113$
- 2 456 + 100 + 20 + 7 = 556 + 20 + 7
 - = 576 + 7 = 583
- 3 7

Fourth

552

Fifth

521

Sixth

- (a) $\chi = 6,245 + 5,375$
 - $\chi = 11,620$
- **b** $\chi = 1,025 675$ $\chi = 350$
- © 345 + 290 = 635 m. 9,150 - 635 = 8,515 m.



General Exercises on

Unit 3

First

- **1** (a) 4 (d)
- 2 (d)
- **5** (c) 8 (d)
- **7** (c) 9 (b)
- 10 (a)

Second

- 1,025
- 2 20,15
- 3 15,40

3 (a)

6 (c)

400 , 20.

6 2,000 ,200.

- 5 400 , 4,000. **7** 50 , 5,000.
- 8 9:13

- 9 00:23
- 10 4 , 10

Third

- 1 <
- 2 >
- 3 <

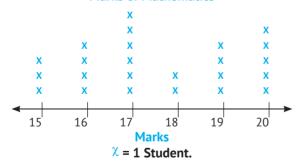
4 =

Fourth

400 cm, 400 dm, 40 dekameters, 40 hectometers.

Fifth

Marks of Mathematics



Sixth

120 + 30 = 150 minutes.

150 + 150 + 150 = 450 minutes.

General Exercises on

Unit 4

First

- **1** (a)
- 2 (b) 5 (d)
- 3 (c) 6 (c)

- 4 (a) **7** (a)
- 8 (a)
- 9 (a)
- 10 (c)

Second

- 1 50 m.
- 2 24 m.
- 3 49 5 14 6 34
- 4 32 7 9
- 8 6
- 9 16

10 32

Third

- 1 a $A = 24 \text{ cm}^2$, P = 20 cm.
 - **b** $A = 16 \text{ cm}^2$, P = 16 cm.
 - \bigcirc A = 81 cm², P = 40 cm.
- $P = 3 \times W + W + 3 \times W + W$ = 8 X w
- 3 P = (40 + 15) X 2 = 110 cm.



Unit 5

Lesson 1

Understanding Multiplicative Comparison

- **b** triple.
- © 5 times.
- d triple.
- 7 times.
- 2 a 6 X 4 = 24
- **b** 5 X 3 = 15
- \bigcirc 7 + 7 + 7 = 21
- 6 + 6 + 6 + 6 + 6 = 30
- **3 a** 16.4
- **(b)** 14.7.7
- **©** 8,4,2
- **d** 27,9,3
- 4 (a) 7 7 7 7
- © 8 8 8
- **10** 10 10

Lesson 2

Creating Multiplicative Comparison Equations

- (1) (a) $\chi = 4 \times 7$
- \bigcirc y = 4 X 3
- \circ m = 2 X 7
- **6** $18 = 6 \chi$
- **2**4 = 4 y
- $69 \pm 48 = 8 \chi$
- 9 21 = 3 a
- $\frac{1}{1}$ 36 = 9 X m.
- 2 a $\chi = 5 \times 4$
- **b** $12 = 3 \chi$
- © 21 = 7 y
- **d** $\chi = 2 \times 4$
- 18 = 6 m

Lesson 3

Solving Multiplicative Comparison Equations

- 1 a X = 4 X 8 , $\chi = 32$
 - **b** $y = 5 \times 6$, y = 30
 - \odot m = 2 X 9 , m = 18
 - **d** 18 = 6 a . a = 3
 - \bigcirc 36 = 4 b , b = 9
 - \bigcirc 42 = 7 n , n = 6

- 2 a 15 = 3a , a = 5
 - **b** b = 5 X 3 , b = 15
 - © 20 = 5a , a = 4
 - \bigcirc 24 = 3y y = 8

Lesson

Commutative Property of Multiplication

- **1 a** 7
- **6**
- **6**
- **6** 9
- **2 a** 8
- **b** 10
- **6**
- **6** 8
- 3 5 X 6 = 6 X 5
- 4 5 X 8 = 8 X 5

Lesson 5

Patterns of Multiplying by 10s

- **1 a** 0
- **(**)
- **G** 1
- **6** 9
- **e** 7
- **1**
- 2 3 80
- **6** 900
- **6**,000
- **120**
- **2,000**
- **f** 30,000
- 3 10
- **b** 1.000
- **©** 100
- **100**

- **10**
- **1**0

Lesson 6

Exploring Pattens in Multiplication

- **1**,200
- **b** 1,500
- **©** 40,000
- **d** 10,000
- **100,000**
- **1** 400,000
- **2 a** 50
- **6**0
- **©** 500
- **a** 20
- **6** 5000
- **100**
- 3 1,000 X 2 = 2,000 mm.



Exploring More Pattens in Multiplication

- 1) (3) (5 X 3) X 2 = 15 X 3 = 30
 - **(3 X 4) X 2 = 12 X 2 = 24**
 - © 2 X (5 X 4) = 2 X 20 = 40
 - **10** X (6 X 5) = 10 X 30 = 300
- 2 3,5
- **b** 3,4
- **©** 7.9
- **1** 7.2
- $3 6 \times 2 \times 3 = 6 \times (2 \times 3)$
 - $= 6 \times 6 = 36 \text{ eggs}.$
- $4 \times 2 \times 5 = 4 \times (2 \times 5)$
 - $= 4 \times 10 = 40 \text{ bottles}.$

Lesson 8

Applying Patterns in Multiplication

- **1 a** 10
- **b** 100
- **6** 8
- **6** 5
- **6**0
- **2 a** 240
- **b** 240
- **9** 4.000
- **d** 6.300
- **9** 40,000
- **1** 42,000

Unit 6

Lesson 1

Identifying Factors of Whole Numbers

- **1 a** 1, 2, 3, 4, 6, 12 **b** 1, 2, 4, 5, 8, 10, 20, 40
 - **6** 1, 2, 3, 4, 6, 9, 12, 18, 36
- 2 1, 5, 25
- **b** 1, 2, 3, 4, 6, 8, 12, 16, 24, 48
- **©** 1,19
- **3 a** 10, 20, 30
 - **b 1** 5
- 2 2,5,10
- 3 2
- 4 5
- 5 2

Lesson 2

Prime and Composite Numbers

- **1 a** 3,5
- **b** 2,3,6,9
- **©** 2,5
- **d** 2,3,6,9
- **2.5**
- **1** 3,9
- 2 2, 3, 5, 7, 11, 13, 15, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97
- **3 a** 1, 2, 7, 14
- (Not a prime number)
- **b** 1, 2, 23, 46
- (Not a prime number)
- **©** 1, 2, 11, 22
- (Not a prime number)
- **1**,59
- (prime number)
- (a) 1, 2, 5, 10, 25, 50 (Not a prime number)
- **1,29**
- (prime number)
- **4 a** 28
- **b** 48
- **©** 35

Lesson

Greatest Common Factor (G.C.F)

- **1 a** 4
- **b** 10
- **G** 7
- **a** 1
- 2 Largest number of groups = (G.C.F) = 9

Number of boys in each group

 $= 27 \div 9 = 3$ boys.

Number of girls in each group

- $= 36 \div 9 = 4$ girls.
- 3 Number of snacks

(G.C.F) = 12

Number of apples in each

package = $24 \div 12 = 2$ apples.

Number of candy in each

package = $36 \div 12 = 3$ candies.



Identifying Multiples of Whole Numbers

- 1 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40.
- 2 0, 5, 10, 15, 20, 25, 30, 35, 40.
- (3) (a) 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100.
 - **b** 10, 20, 30, 40, 50, 60, 70, 80, 90, 100.
- 4 a 0, 16, 32, 40, 56, 64, 72, 80.
 - **b** 0, 6, 12, 18, 24, 30, 36, 42, 48, 54, 60.
 - © 0, 7, 14, 21, 28.
 - **d** 27, 54, 99, 36, 45.

Lesson

Common Multiples

- 0, 6, 12, 18
- 2 0, 12, 24
- 3 3 8.16
- **(b)** 10, 20
- **©** 24, 48
- **d** 42, 84
- 4 (a) 40, 50, 60, 70

- **b** 48, 60, 72, 84
- **©** 72, 96, 120

Lesson 6

Relationships Between Factors and Multiples

- **a** 35,5,7,5,7,35 **b** 48 = 6 X 8,8,8,48
 - **©** 24
- 27
- ② 2,3 are factors of 6 or 6 is a multiple of 2,3.

Unit 7

Lesson

The Area Model Strategy

- **1 a** 64
- **b** 84
- **©** 170
- **2 a** 120
- **b** 522
- **©** 268

3 702

- **d** 686
- 4 138

Lesson 2

The Distributive Property

- **1.248**
- **b** 2.244
- **©** 47,106
- **d** 10,748
- 2 3,000
- **b** 1,944
- **©** 19.425
- **d** 39.696
- 3 980 cm.

Lesson

The Partial Products Algorithm

- **a** 2,048
- **b** 23.916
- **©** 567
- **6** 5,616
- **6** 500
- **1** 76,185

Lesson 4

The Standard Multiplication Algorithm

- **1 a** 1,200 , 1,422 , 1,422

 - **b** 63,000 , 66,825 , 66,825
- 2 336
- **b** 1.944
- **©** 29,232
- 216
- **1,192**
- **1** 39,330

Lesson

Connecting Strategies

- 1,548
- **b** 270
- **6** 4,298
- **d** 21,375
- **25,040**
- 2 (a) 3,192
- **(**) 372
- **©** 1,640
- **d** 372

Lesson 6

Two-Digit Multiplication

- **1 a** 960
- **b** 2,960
- 2 2,800
- **5,740**
- 3 (a) 7,650
- **b** 810
- 4 (a) 450
- **6** 700
- **©** 840
- 2,400



Area Models and 2-Digit Multiplication

- **1 a** 2,205
- **b** 3.827
- **©** 1,932
- **d** 1.813
- $215 \times 6 = 1,290$
- $35 \times 38 = 1,330$

Lesson 8

Algorithms and 2-Digit Multiplication

- **a** 1,000 , 1,484 , 1,484
 - **b** 2,400 , 3,216 , 3,216
 - © 2,700 , 3,040 , 3,040

Lesson 9

Putting It All Together

- $11210 \times 2 = 420 \text{ kg}$.
 - 420 130 = 290 kg.
- 2 6 + 8 = 14 km.
 - $14 \times 6 = 84 \text{ km}$.
- $376 \times 3 = 228$ seats.
 - 228 53 = 175 seats.
 - 76 + 228 + 175 = 479 seats.
- $4.65 \times 3 + 55 \times 2 = 305$ km.
 - 500 305 = 195 km.
- 5 270 70 = 200 km. 200 + 270 + 20 = 670 km.

Lesson 10

Exploring Remainders

- **1 a** 25 , 4 , 6 , 1
- **6**, 5, 6, 5, 0
- © 28,5,5,3
- d 16,3,5,1
- 2 60 ÷ 40 = 1
- R 20

Number of buses = 2.

Number of empty seats

- = 40 20 = 20.
- $248 \div 5 = 9$
- R 3

Number of boxes = 10 boxes.

Lesson 11

Patterns and Place Value in Division

- **1 a** $45 \div 9 = 5,500$ **b** $15 \div 5 = 3,3,000$
- 2 (3 300
- **6** 500
- **c** 2.000
- **6** 500
- $3.9 \times 90 = 810$

All workers can't ride the same metro.

- 4) 360 ÷ 6 = 60 patties.
- $540 \div 9 = 60$ boxes.

Lesson 12

The Area Model and Division

- **1 a** 14
- **b** 22 R2.
- C 152 R1.
- **b** 400
- $2868 \div 8 = 108 \text{ R4}.$
- $3 492 \div 4 = 123 \text{ cars.}$

Lesson 13

The Partial Quotients Algorithm

- 16 R3
- **b** 28
- **©** 125
- **d** 234 R1
- **2,312**
- **1** 2,092 R2
- $2480 \div 3 = 160 \text{ cups.}$
- $31,026 \times 5 = 5,130$ cans.
 - $5.130 \div 2 = 2.565$ cans.

Lesson

The Standard Division Algorithm

- **1 a** 60,90 20,30
 - **b** 600,900 200,300
 - © 200,240 50,60
 - **d** 4,000 , 6,000 2,000 , 3,000
 - **6** 4,000 , 8,000 1,000 , 2,000
- **1 a** 13
- **b** 24 R1
- **©** 152
- **139 R3**
- **2,819**
- **1** 3,269
- $2784 \div 8 = 98 \text{ passengers}.$



Division and Multiplication

$$3219 \div 3 = 73 \text{ km}.$$

Lesson 16

Solving Challenging Story Problems

 $14 \times 6 = 84 \text{ kg}.$

$$84 + 14 = 98 \text{ kg}$$
.

$$98 \div 7 = 14$$
 bags.

Number of bags = 14 bags.

 $2347 \times 4 = 1,388 \text{ balls}$

$$1,388 - 799 = 589$$
 balls.

- $3 21 \div 3 = 7$ bottles.
- $4 814 \times 3 = 2,442$ pages.

$$2,442 + 814 = 3,256$$
 pages.